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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/807,372	07/16/2001	Kanta Yagi	50395-098	5924

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WASHINGTON, DC 20005-3096

EXAMINER

DERRINGTON, JAMES H

ART UNIT PAPER NUMBER

1731

DATE MAILED: 05/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/807,372

Applicant(s)

YAGI ET AL.

Examiner

James Derrington

Art Unit

1731

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 10 March 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4 and 8-14 is/are allowed.
- 6) ☒ Claim(s) 1,3 and 5-7 is/are rejected.
- 7) ☒ Claim(s) 2 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 and 7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP 6-316422.

JP 6-316422 discloses an apparatus comprising a reaction vessel, a burner that generates glass particulates, and a bait rod on which the glass particulates are deposited (Fig. 1). The apparatus is further provided with a partition member or shutter (31) located in the reaction vessel such that the vessel is separated into an upper and lower part. The partition member may be provided in a space around the soot perform (Fig. 3). The apparatus is also equipped with an exhaust port in the side wall below the partition member and the burner is located below the partition member. A process makes use of the apparatus whereby combustion gas and raw material is supplied to the tip of the bait rod as it is rotated and drawn up.

The examiner does not agree with applicant's analysis because the element 13 in combination with the element 10 can be interpreted to be a reaction vessel.

Applicant's attention is directed to Figs. 3 and 4. The examiner submits that it is not

convincing and not a reasonable interpretation of Fig. 4 of the reference to conclude that elements 13 and 10 taken together do not constitute a reaction vessel. Applicant is requested to compare instant Fig. 3 with Figs. 3-4 of the reference. In any event, the claims also stand rejected under 35 U.S.C. 103(a). The elements 10 and 13 taken together as depicted in Fig. 4 of JP 6-316422 would have suggested a reaction vessel to one of ordinary skill in the art.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 6-316422.

The Abstract (purpose and constitution) of this reference discloses soot flow can be stabilized and that the opening of the shutter can be controlled to provide an optimum size. In view of the recognition of soot flow stabilization and opening size it would be within the purview of one of ordinary skill in the art to determine the desired gap measurements as recited in dependent claims 3. It does not appear that additional arguments have been presented in regards to this rejection.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 6-316422 as applied to claim 1 above, and further in JP 5-330845.

JP 5-330845 discloses that the prior art is well aware of soot deposition reaction vessels made of quartz. It would have been obvious to use quartz as the material for the instant partition in view of the art recognized function of this material. It does not appear that additional arguments have been presented in regards to this rejection.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 6-316422 as applied to claim 1 above, and further in view of JP 1-106534.

The partial abstract of JP 1-106534 and the Figs. set forth a related device where an air inlet 8 is provided whereby excess glass material that does not adhere to the soot perform is led out of the apparatus through an exhaust port. It would have been obvious to equip the apparatus of JP 6-316422 with an air inlet for the reason disclosed by JP 1-106534. It does not appear that additional arguments have been presented in regards to this rejection.

Claims 4 and 8-13 have been allowed in view of the arguments and amendments presented in the response.

Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The limitations of this claim contain allowable subject matter in view of applicant's remarks and the disclosure of the importance of the claimed range as presented in the paragraph bridging pages 5-6.

In claim 8, line 3, "panel" is requested to be changed to – board – in order to maintain consistent language.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not

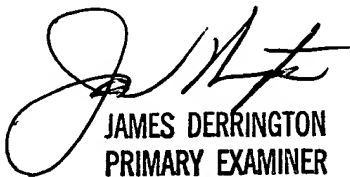
Art Unit: 1731

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Derrington whose telephone number is 703 308-3832. The examiner can normally be reached on 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 703 308-1164. The fax phone numbers for the organization where this application or proceeding is assigned are 703 305-7718 for regular communications and 703 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0661.



JAMES DERRINGTON  
PRIMARY EXAMINER  
ART UNIT ~~137~~ 1731